

*2 – DAY EDUCATION SYMPOSIUM*  
***Roof Technology & Science I***  
*NOVEMBER 14 & 15, 2019*

**Program:**

November 14 & 15, 2019  
Education Courses: 8 AM – 5 PM

**Program Location:**

Monarch Hotel & Conference Center  
12566 SE 93<sup>rd</sup> Avenue  
Clackamas, Oregon 97015  
503-652-1515

**Accommodations:**

Monarch Hotel & Conference Center  
Hotel Reservation: 800-492-8700  
Room Rate: \$129 + tax, please  
mention “IIBEC Portland Chapter”

**Program Cost:**

IIBEC Member - \$525  
Nonmember - \$675

Program Includes: Course text book,  
Continental Breakfast at 7:30 AM &  
lunch

**Registration:**

To register and pay for each program  
go online to [www.portlandrci.com](http://www.portlandrci.com)

The Portland Chapter of the International Institute of Building Enclosure Consultants (formerly Portland Chapter of RCI, Inc.) invites all consultants, contractors, students, and design professionals practicing in the roofing, waterproofing and building enclosure fields to attend a 2-Day **Roof Technology & Science I** Education Symposium.

**DESCRIPTION:**

This two-day course is a first component of a two-part series covering, in detail, aspects of the technology and science of roofing. It covers the history and evolution of roofing up to present-day common applications. It features terminology and technical information regarding roof decks and structures, roof insulation, bitumen membranes, built-up and modified bitumen membranes and flashing systems. An understanding of heat transfer theory, moisture, thermal design, and the calculation of U-factors will also be presented.

Highlights of the program include critical aspects of roof decking and related supporting structures, heat transfer and practical heat transfer calculations, the function of heat transfer and the different types of roof insulation, the technology behind roofing bitumens and their related BUR and modified-bitumen membranes, and basic flashing nomenclature and bituminous flashing system construction.

The Roof Technology and Science I course features fundamental concepts that prove useful for students in other IIBEC Educational Programs. Roof consultants, facility managers, contractors, architects, engineers, roofing material salespeople, property managers and others can gain new insight and professional development in the continually evolving world of roofing technology.

**Instructors:**

- Mike Caniglia, RRO, RBEC, Wetherholt & Associates, Inc.
- Aaron Nelson, REWC, RRC, RWC, RRO, Roofing Technical Services

